

205  
Begin

REEL 524

SINITSYN, B.M.

SINITSYN, B.M.

A rare case of emphysema of the eyelids. Sov.med.19 no.10:92  
O '55. (MLRA 8:12)

1. Iz Respublikanskoy glaznoy bol'nitsy Kara-Kalpakskoy ASSR  
v Nikuse (glavnyy vrach Ye.S.Chernova)  
(EYELIDS, diseases  
emphysema)  
(EMPHYSEMA  
eyelids)

SIMITSYN, B.M.

Treatment of acute epidemic conjunctivitis. Sov.med. 20 no.7:61-62  
Jl '56. (MLRA 9:10)

1. Iz respublikanskoy glaznoy bol'nitsy Kara-Kalpakskoy ASSR v  
Nukuse.

(CONJUNCTIVITIS, ther.

penicillin-sulfacetamide-tetracaine in acute epidemic  
conjunctivitis)

(PENICILLIN, ther. use

penicillin-sulfacetamide-tetracaine in acute epidemic  
conjunctivitis)

(SULFONAMIDES, ther. use

sulfacetamide-penicillin-tetracaine in acute epidemic  
conjunctivitis)

(ANESTHETICS, LOCAL, ther. use

tetracaine-sulfacetamide-penicillin in acute epidemic  
conjunctivitis)

SINITSYN, B.M.

Transplantation of catgut under the ocular conjunctiva in treating  
trachomatous pannus. Vest. oft. 70 no.1:25-27 Ja-F '57  
(MIRA 10:5)

1. Respublikanskiy trakhomotoznyy dispanser g. Nukusa Kara-Kalpakskoy  
ASSR.

(TRACHOMA, surg.

transpl. of catgut under conjunctiva in trachomatous  
pannus) (Bus)

SINITSYN, Boris Semenovich; DOMBROVSKIY, N.V., redaktor; MANAKIN, N.V.,  
redaktor; KOGAN, F.L., tekhnicheskii redaktor

[Adjustment of the principal units of road building machinery]  
Regulirovka osnovnykh uslov dorozhnoostroitel'nykh mashin. Mo-  
skva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1955. 84 p.  
(Road machinery) (MIRA 9:4)

SINITSYN, Boris Semenovich; LESNYAKOV, F.I., redaktor; MAL'KOVA, N.V.,  
tekhnicheskii redaktor

[The operation of bulldozers; a manual for bulldozer operators]  
Eksploatatsiia bul'dozero; posobie bul'dozeristu. Moskva, Nauchno-  
tekhn. izd-vo avtotransp. lit-ry, 1956. 94 p. (MLRA 9:7)  
(Bulldozers)

SINIT SIN, B.S., inzh.

Special problems in maintaining building machinery with mounted  
equipment. Transp. stroi. 10 no. 11:45-49 N '60. (MIRA 13:11)  
(Building machinery—Maintenance and repair)



SINITSYN, B.S., inzh.

Performance of crawler tractors with mounted excavating machinery.  
Trakt.i sel'khozmas. 31 no.2:10-12 F '61. (MIRA 14:7)  
(Crawler tractors) (Excavating machinery)

SINITSYN, B.S., inzh.

Mounted road and construction machinery and the basic crawler  
tractors. Stroitel'mash. 7 no.2:9-11 F '62. (MIRA 15:5)  
(Tractors)

SINITSYN, B.S., kand.tekhn.nauk

Automation of the technical servicing of building and road  
machines. Stroi.i dor.mash. 7 no.10:18-19 0 '62. (MIRA 15:11)

(Automatic control)

(Construction equipment--Maintenance and repair)

(Road machinery--Maintenance and repair)

BERSHTEYN, G.M., inzh.; MUZYCHENKO, F.I., inzh.; SINITSYN, B.S., inzh.

Small hydraulic drag. Transp. stroi. 12 no.1:51-52 Ja '62.  
(MIRA 17:2)

SINITSYN, B.S., kand.tekhn.nauk

Improving the system of technical servicing for construction  
and road machinery. Stroil. i dor. mash. 8 no.5:9-11 My '63.

(MIRA 16:5)

(Construction equipment—Maintenance and repair)

(Road machinery—Maintenance and repair)

SINITSYN, B.S., kand.tekhn.nauk

Servicing of machinery abroad. Mekh. stroi. 20 no.6:22 Je '63.

(MIRA 16:5)

(Construction equipment—Maintenance and repair)

0290-65

ACCESSION NR: AT5009053

AUTHOR: Dovgii, V. A. (Novosibirsk); Domaratov, A. N. (Novosibirsk);  
Sevast'yanov, S. S. (Novosibirsk); Sinitsyn, B. S. (Novosibirsk)

S/0000/64/001/000/0166/0170

TITLE: On the construction of arithmetic units for digital correlators

8  
B+1

SOURCE: Konferentsiya po avtomaticheskomu kontrolyu i metodam elektricheskikh iz-  
 mereniy. 3d, Novosibirsk, 1961. Avtomaticheskii kontrol' i metody elektricheskikh iz-  
 mereniy; trudy konferentsii, t. 1: Metody elektricheskikh izmereniy. Analiz i  
 sintez sistem upravleniya i kontrolya. Elementy ustroystv avtomaticheskogo kontro-  
 lya (Automatic control and electrical measuring techniques; transactions of the  
 conference, v. 1: Electrical measuring techniques. Analysis and synthesis of re-  
 gulation and control systems. Elements of automatic control devices). Novosibirsk,  
 Redizdat Sib. otd. AN SSSR, 1964, 166-170

TOPIC TAGS: digital correlator, arithmetic unit, logic network, spectral density,  
 correlation function

ABSTRACT: The arithmetic unit is intended for the calculation of the correlation  
 function

Card 1/2

L 46290-65

ACCESSION NR: AT5009053

$$R_x(\tau) = \frac{1}{N} \sum_{t=1}^N x(t) x(t+\tau).$$

0

which involves the summation of N products and dividing the result by N. Four variants of performing the multiplication in the binary system and in a direct code are described, as is the logical circuit of the entire arithmetic unit. The arithmetic unit is also capable of calculating the spectral density if the correlation function is known beforehand. The procedure for this operation is described. If a magnetic drum memory is used and the integration interval is broken up into  $1024$  sections, the arithmetic unit can determine 128 points of the correlation function within 2--3 minutes. Orig. art. has: 3 figures and 2 formulas.

ASSOCIATION: None

SUBMITTED: 13Apr64

ENCL: 00

SUB CODE: DP, IE

NR REF SOV: 002

OTHER: 003

Cerd 2/2



L 62693-65

ACCESSION NR: AT5013039

UR/0000/64/002/000/0084/0087

AUTHOR: Domaratskiy, A. N. (Novosibirsk); Sinitsyn, B. S. (Novosibirsk) 3  
BT1

TITLE: Polar correlators and their application

SOURCE: Vsesoyuznaya konferentsiya po avtomaticheskomu kontrolyu i metodam elektricheskikh izmereniy. 4th, Novosibirsk, 1962. Avtomaticheskoy kontrol' i metody elektricheskikh izmereniy; trudy konferentsiy, t. 2: Teoriya izmeritel'nykh informatsionnykh sistem. Sistemy avtomaticheskogo kontrolya. Elektricheskoye izmereniya neelektricheskikh velichin (Automatic control and electrical measuring techniques; transactions of the conference, v. 2: Theory of information measurement systems. Automatic control systems. Electrical measurements of nonelectrical quantities). Novosibirsk, Redizdat Sib. otd. AN SSSR, 1964, 84-87

TOPIC TAGS: correlator, polar correlator

ABSTRACT: The functioning of two polar correlators developed by the authors is briefly described. One correlator handles the data recorded on a transparent tape.

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L 62693-65

ACCESSION NR: AT5013039

in the form of dark and light rectangles whose widths correspond to  $\text{sgn } X_0(t)$  and  $\text{sgn } Y_0(t)$ ; ten photodiodes perform the readout. The counting of 10 points takes 1-4 min; error, a few per cent. Another polar correlator is intended for processing run-of-line data and depends for its action on single-shot multi-vibrators. Block diagrams of both correlators are supplied. Orig. art. has: 3 figures and 4 formulas.

ASSOCIATION: none

SUBMITTED: 17Nov64

ENCL: 00

SUB CODE: DP

NO REF SOV: 002

OTHER: 001

*zlk*  
Card 2/2

SINITSYN, B.S.

Conference on automatic control and electric measurement techniques.  
Elektrichestvo no.6:93-94 Je '65. (MIRA 18:7)

SINITSYN, B.S., kand. tekhn. nauk

Technical maintenance and repair of construction equipment in the  
U.S.A. Transp. stroi. 15 no.5:57-58 My '65. (MIRA 18:7)

SINITSYN, B..S., kand. tekhn. nauk

Small-scale suction dredges for the construction of transportation systems. Transp. stroi. 15 no.6:53-54 Je '65.  
(MIRA 18:12)

ACC NR: AN6024523

Monograph

UR/

Domaratskiy, A. N.; Ivanov, L. N.; Karyshev, YE. N.; Sinitsyn, B. S.

Discrete measurement correlation systems; (DIKS) (Diskretnaya izmeritel'naya korrelyatsionnaya sistema; DIKS) Novosibirsk, Izd-vo "Nauka," 1965. 107 p. illus., biblio. (At head of title: Akademiya nauk SSSR. Sibirskoye otdeleniye) Errata slip inserted. 2050 copies printed.

TOPIC TAGS: discrete measurement correlation system, ~~statistical~~ ergodic ~~theory, function, ergodic, random function, electric measuring system, correlation function, function theory, random process, logic circuit, computer component~~

PURPOSE AND COVERAGE: This book is intended for readers engaged in work with measurement systems. The discrete measurement correlation system (DIKS) developed at the Institute of Automation and Electrometry of the Siberian Department of the Academy of Sciences USSR, Novosibirsk is described. Problems connected with the design and development of the DIKS are covered fully. Some individual units of this system, especially the design of their inputs, may be of interest to computer engineers.

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Conclusion -- 101

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SUB CODE: 07,12/

SUBM DATL: 07Jun65/ ORIG REF: 045/ OTH REF: 005

Card 3/3



SINITSYN, B. S.

"Differential Electric Measuring Instruments With Copper Oxide Rectifiers,"  
(Differentsial'nyye elektroizmeritel'nyye pribory s mednozakisnymi vypryamitel'yami),  
Elektrichestvo, No 7, 1950.

L'vov Polytechnic Institute  
Dissertation for Candidate Degree

SINITSYN, B.S.

USSR/Electricity - Conductors

Jun 51

"Technical Requirements of Manganin Conductors," O. A. Andreyeva, Engr, Prof K. B. Karandeyev, V. A. Kochan, Engr, B. S. Sinitsyn, Cand Tech Sci, L'vov Polytech Institute

"Elektrichestvo" No 6, pp 67-69

Examines existing tech specifications for manganin conductors from the standpoint of modern elec-instrument building requirements. Suggests new criteria for detg the stability and introduces a supplementary classification of manganin conductors with respect to temp coeff of resistance. Submitted 30 Nov 49.

200T19

*Sinitzin, B. S.*

124-1957-10-11278

Translations from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 15 (USSR)

AUTHOR: Sinitzin, B. S.

TITLE: An Analysis of Static Errors in Automatic Control Systems  
(Analiz staticheskikh pogreshnostey sistem avtokontrolya)

PERIODICAL: Nauch. zap. L'vovsk. politekhn. in-t, 1956, Nr 36, pp 113-124

ABSTRACT: A problem in the determination of static errors in n-member sequence automatic-control systems, in cases when the errors of the component members and their sensitivity are known. The same problem is considered applicable to multi-member differential and compensating systems.

Ye. N. Miroslavlev

Card 1/1

KARANDEYEV, Konstantin Borisovich; SINITSYN, B.S., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor; KOTLYAROV, Yu.L., redaktor; SARANYUK, T.V., tekhnicheskiiy redaktor

[Direct current galvanometers; theory and practice] Galvanometry postoiannogo toka; teoriia i primeneniye. [L'vov] Izd-vo L'vovskogo univ., 1957. 168 p. (MIRA 10:6)  
(Galvanometer)

SHUMILOVSKIY, N.N.; SINITSYN, B.S.; KNELLER, V.Yu.

Some problems of automatic measurement techniques in connection  
with the over-all automation of industrial production. *Izv. tekhn.*  
no. 1:13-17 Ja-F '57. (MIRA 10:4)  
(Automatic control) (Measuring instruments)

8(0)

SOV/112-58-3-4359

Translation from: Referativnyy zhurnal. Elektrotehnika, 1958, Nr 3, p 135 (USSR)

AUTHOR: Shumilovskiy, N. N., and Sinitsyn, B. S.

TITLE: Fundamental Problems of Automatic-Measurement Theory  
(Osnovnyye zadachi teorii avtomaticheskikh izmereniy)

PERIODICAL: Sessiya AN SSSR po nauchn. probl. avtomatiz. proiz-va, 1956,  
Vol 3, M., AS USSR, 1957, pp 17-35

ABSTRACT: Automation of measurements is associated with an expansion of functions performed by the measuring instruments. Automatic measuring instruments are often referred to as automatic-supervision instruments. The definition of "measurement" as suggested by M. F. Malikov requires a more accurate wording because it does not emphasize the possibility of continuous measuring of a quantity in question. A theory of automatic measurements has been developed over recent years. In studying the static errors of supervisory systems with concentrated constants, it is expedient to find the expressions for

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8(0)

SOV/112-58-3-4359

## Fundamental Problems of Automatic-Measurement Theory

general system errors due to changes in parameters of individual components. In dynamic studies, the above parameter variations play only a secondary part and can be neglected. Stability matters are also of secondary importance; however, the quality problems occupy an important place. Rigid specifications are usually applied more to automatic supervisory systems than to automatic-control systems. Dynamic characteristics are improved by using new inertia-less elements and by introducing corrective components. Devices with scanning conversion have great prospects. Systems in which the measurand is a random function of two independent variables — time and a space coordinate — are of considerable interest. The dynamic accuracy of measurement can be increased by using additional correcting primary elements that back up the principal primary elements, i. e. <sup>are</sup> placed ahead of the propagation of the measurand disturbance. Temperature measurements can serve as an example. To study the systems with corrective primary elements theoretically, it is necessary to

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8(0)

SOV/112-58-3-4359

Fundamental Problems of Automatic-Measurement Theory

know the average value and the correlation function. Modern trends in the development of automatic supervisory systems are: (a) new primary-element types, (b) compensators without rheochords, (c) stable normal and dry cells, (d) new photomaterials for recording the processes. Instruments with multiple full deflection of the scale can provide considerably higher accuracy. It is interesting to note the development and manufacture by Soviet industry of coordinate recorders and AC automatic compensators. Digital instruments are of a special importance as they permit automatic introduction of data into the digital computers, remote transmission of measurement results, elimination of reading errors, etc. Development and use of mathematical machinery for data processing or for measuring the characteristics of supervisory systems when some measuring conditions change (self-reset systems) is of a great theoretical and practical interest.

A.V.L.

Card 3/3



21730

S/123/61/000/003/017/023

A004/A104

1.9660

AUTHOR: Sinitsyn, B. S.

TITLE: On the problem of accuracy of automated measuring systems

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 3, 1961, 3, abstract 3D16. ("Tr. Konferentsii po elektr. izmereniyam i priborostr."). Kiyev, AN UkrSSR, 1959, 286-292)

TEXT: The author investigates methods to decrease static and dynamic errors in automatic measuring systems. It is pointed out that an increase in the static accuracy is achieved by reducing the errors of the measuring circuit proper. For this purpose it is suggested to utilize sets of accurately fixed resistors being switched over during the process of balancing the measuring bridges, to control by thermostat the corresponding elements of the circuits, to transfer the switch contacts in circuits with low voltages from the compensation contour to the circuit of the operating current source in order to reduce the errors from the contact thermo-emf. An increase in the accuracy of data recording can be achieved by manifold rounds of the scale during which the whole measuring range is broken down into a number of subranges with continuous record-

Card 1/2

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S/123/61/000/003/017/023

A004/A104

On the problem of accuracy of ...

ing within each of them. To reduce the dynamic measuring errors it is recommended to change the recording speed continuously in accordance with the variation speed of the magnitude being measured. Extrapolations of measurements in time can be carried out with increased accuracy on the basis of an additional measuring of the value in several points along the propagation path of the process being checked and by introducing corrections of the basic measuring results. There are 7 references.

G. Kashin

[Abstractor's note: Complete translation]

Card 2/2

SINITSYN, B.S.

Measurement at an inaccessible point. Avtom.kont.i elek.izm.  
no.1:139-146 100. (MIRA 15:8)  
(Open-hearth furnaces--Electric measurements)  
(Temperature--Measurement) (Temperature regulators)

SINITSYN, B.S.

Conference on automatic control and electrical measurements.  
Avtom. i telem. 23 no.5:685-687 My :62. (MIRA 15:5)  
(Electric measurements--Congresses)  
(Automatic control--Congresses)

SINITSYN, Boris Sergeyevich; TSAPENKO, M.P., doktor tekhn. nauk,  
otv. red.; SHALINA, L.V., red.

[Automatic correlators and their applications] Avtomati-  
cheskie korreliatory i ikh primeneniye. Novosibirsk, Red.  
izd. otdel Sibirskogo otd-niia AN SSSR, 1964. 215 p.  
(MIRA 17:8)

L 24519-65 EWT(d)/EWP(1) Po-4/Pq-4/Pg-4/Pk-4/Pl-4 IJP(c) BG  
 ACCESSION NR AMS002546 BOOK EXPLOITATION

5/ 42  
 BH

Sinitsev, Boris Sergeyevich

Automatic correlators and their application (Avtomaticheskiye korrelyatory i ikh primeneniye), Novosibirsk, AN SSSR Sib. otd., 1964, 215 p. illus., biblio. Errata slip inserted. 2,000 copies printed. (At head of title: Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut avtomatiki i elektrometrii)

TOPIC TAGS: automatic control system, automatic correlator, automatic measuring system

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L 24519-65

ACCESSION NR AM5002546

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SUBMITTED: 18Mar64

SUB CODE: DP

NO REF SOV: 159

OTHER: Old

Card 2/2





SINITSYN, B.S. (Novosibirsk)

Present status and future development of correlation measurement  
methods. Avtometriia no.1:57-67 '65. (MIRA 18:7)

DOMARETSKIY, A.N.; IVANOV, L.N.; KARYSHEV, Ye.N.; SINITSYN, B.S.;  
SHALINA, L.V., red.

[Discrete measuring correlation system (DIKS)] Diskretnaya izmeritel'naya korrelyatsionnaya sistema (DIKS).  
Novosibirsk, Nauka, 1965. 107 p. (MIRA 19:1)

L 26562-66

ACC NR: AP6017390

SOURCE CODE: UR/0410/65/000/001/0057/0067

AUTHOR: Sinit'syn, B. S. (Novosibirsk)

ORG: none

TITLE: State and prospects for development of correlation methods of measurement

SOURCE: Avtometriya, no. 1, 1965, 57-67

TOPIC TAGS: measurement, correlation function

ABSTRACT: The concepts of correlation measurements and correlation measuring systems are clarified; brief information is presented on three main methods of determination of correlation functions. The question of the structure of correlation systems is analysed, especially as concerns multichannel systems and systems with parallel performance of computation of the values of each point in the correlation function. The state and problems of the theory of errors in correlation systems are briefly outlined and some prospective areas for their application are mentioned. The usage of correlation methods for construction of self-tuning, self-exciting and self-organizing systems is particularly promising. Orig. art. has: 6 figures and 5 formulas. [JPRS]

SUB CODE: 14, 12 / SUHM DATE: 29Sep64 / ORIG REF: 035 / OTH REF: 022

Card 1/1

UDC: 681.142.5

L 22591-66 EWP(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AP6013002

SOURCE CODE: UR/0105/65/000/006/0092/0094

AUTHOR: Sinit'syn, B. S.

ORG: none

TITLE: Conference on automatic control and methods of electrical measurements

SOURCE: Elektrichestvo, no. 6, 1965, 92-94

TOPIC TAGS: automatic control, electric measurement, scientific conference, information storage and retrieval

ABSTRACT: The VI Vsesoyuznaya konferentsiya po avtomaticheskomu kontrolyu i metodam elektricheskikh izmereniy (Sixth All-Union Conference on Automatic Control and Methods of Electrical Measurements) was held from 8 to 12 September 1964 in Novosibirsk. It was organized by the Institut avtomatiki i elektrometrii Sibirskogo otdeleniya AN SSSR (Institute of Automation and Electrometry of the Siberian Section AS USSR), The section for information systems of the Nauchnyy sovet po kompleksnoy probleme "Kibernetika" pri Prezidiume AN SSSR (Scientific Council for the Complex Problem "Cybernetics" at the Presidium of the AS USSR), and the Sovet narodnogo khozyaystva Zapadnosibirskogo ekonomicheskogo rayona (Council for National Economy of the West Siberia Economic Rayon).

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UDC: 62-501.7

L 22591-66

ACC NR: AP6013002

The conference was attended by 710 delegates from 47 cities representing 182 organizations. Main emphasis was on the problems of the theory of information gathering systems, methods for their analysis and design, and individual development of complex measuring equipment. The article mentions 44 reports (from listing of authors for some, to short summaries for others). The section for information gathering systems of the Scientific Council for Cybernetics of the Presidium of the AS USSR held simultaneously a meeting discussing the coordination of research work and certain problems of education. Regular sessions of the section will be held three times a year. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 2/2, *HL*

ACC NR: AM6004772

Monograph

UR/

Karandeyev, Konstantin Borisovich; Karpyuk, Bogdan Vladimirovich; Kasperovich, Aleksandr Nikolayevich; Pushnoy, Boris Mikhaylovich; Rabinovich Vladimir Izrailevich; Sinitsyn, Boris Sergeyevich; Tverdokhle, Petr Yemel'yanovich; TSapenko, Mikhail Petrovich

Electrical methods of automatic control (Elektricheskiye metody avtomaticheskogo kontrolya) Moscow, Izd-vo "Energiya", 1965. 383 p. illus., biblio. 10,000 copies printed

TOPIC TAGS: automatic control design, automatic control equipment, data processing

PURPOSE AND COVERAGE: The book, written by staff members of the Institute of Automation and Electrometry of the Siberian Department of the Academy of Sciences SSSR, deals with electric automatic control systems, their structure, and their principal elements and characteristics. The emphasis is on the relation between production quality control and automatic inspection of the manufactured products, and emphasizes statistical methods, automatization of various measurements, and the handling of the information and data generated by the automatic control devices. Different systems, components, and individual control and measurement equipment are also described. Chapter 1 was written by K. B. Karandeyev, B. V. Karpyuk, A. N. Kasperovich, V. I. Rabinovich, P. YE. Tverdokhle, and M. P. TSapenko, Ch. 3 by V. I. Rabinovich and M. P. TSapenko, Ch. 4 by B. S. Sinitsyn, Chs. 5 and 6 mainly by B. V. Karpyuk, Chs. 7 and 8 by A. N. Kasperovich, Ch. 9 by B. M. Pushnoy, Chs. 11 and 12 mainly by P. E. Tverdokhle, and the appendix by B. V. Karpyuk. Authors thank the scientific workers

UDC: 621.317

Cord 1/3

ACC NR: AM6004772

V. M. YEFIMOV and G. G. MATUSHKIN who wrote the main material of Chs. 2 and 10 respectively; and also to the scientific staff members M. A. ROSOV, G. A. SHTENBERGER, G. YE. YEREMENCHUK, YU. I. BAKLANOV, and others for supplying some data and for a discussion of individual problems considered in the book. They also thank L. YE. PINCHUK for participating in the preparation of the manuscript.

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ACC NR: AM6004772

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Automatic control systems with single utilization of the control-channel devices

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SUB CODE: 13/ SUM DATE: 30Jun65/ ORIG REF: 198/ OTH REF: 066

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SINITSYN, Boris Vladimirovich; LUK'YANOVA, M.I., doktor ekonom.nauk,  
stv.red.; GAMAZKOV, K.A., red.izd-va; KUZ'MIN, I.F., tekhn.red.

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Korea, 1945-1959] Promyshlennost' i polozhenie rabochego klassa  
IUzhnoi Korei, 1945-1959 gg. Moskva, Izd-vo vostochno' lit-ry.  
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(Korea, South--Industries)

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Prospects for finding oil and gas in southern and southeastern  
Kazakhstan, northern Kirghizia, and the eastern Ural Mountain  
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Prospects for finding oil and gas in the Kyzyl Kum. Sov. geol.  
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potential of the eastern Chuyka trough. Neftegaz.geol. 1  
geofiz. no.8:40-42 '64. (MIRA 17:9)

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SINITSYN, G.S.

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SINIT SIN, G.S.

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(Kazakhstan—Ephedra)

SINITSYN, G.S.

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SINITSYN, I. (Yaroslavl:)

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nauk, retsenzents; YARTSEV, V.A., dots., kand. tekhn. nauk,  
retsenzents; KULIKOV, V.P., assistant, retsenzents; SINITSIN,  
I.A., assistant, retsenzents; USOV, V.I., assistant, retsen-  
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(Mining engineering--Safety measures)

*SINITSYN I.F.*

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Development of the Stalingrad Tractor Plant. Avt.i trakt.prom.  
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(Stalingrad--Tractor industry)

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First Soviet tractor plant. Mashinostroitel' no.11:11-13 N. '57.  
(MIRA 10:10)

1.Predsedatel' Sovmarkhosa Stalingradskego ekonomicheskogo  
administrativnogo rayona.  
(Tractor industry)

SINITSYN, I.

Auxiliary work and the growth of labor productivity. Sots. trud  
6 no.9:9-20 S '61. (MIRA 14:9)

1. Predsedatel' Stalingradskogo sovnarkhoza.  
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DEGTYAREV, V.I.; SINITSYN, I.F.; IVANOV, V.A.; LAPIN, T.I.; KYAO, V.A.

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(Machinery industry)

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1. Predstatel' Volgogradskogo soveta narodnogo khozyaystva.  
(Volgograd Province—Industrial management)  
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SINITSYN, I.F.

Improving the organization of auxiliary operations. Vest. mashinostr.  
45 no.5:67-70 My '65. (MIRA 18:6)

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EW(d)/EED-2/EIS -AEDC/AFTTC/AFMDC/APCC/ASD/SSD-Pg-4/Pk-4/

PL-4/Pn-4/Po-4/Pq-4-BC

ACCESSION NR: AP3060889

S/0179/63/000/002/0133/0135

83

82

AUTHOR: Sinityn, I. N. (Moscow)

TITLE: Effect of the centrifugal moments of inertia of the inner ring of a gimbal suspension on the stability of a gyroscope

SOURCE: AN SSSR. Izv. Otd. tekhn. nauk. Mekhanika i mashinostroyeniye, no. 2, 1963, 133-135

TOPIC TAGS: gyroscope, stability of rotor and gimbal, sign determinacy of gyroscope, gyroscope tumbling-stability analysis.

ABSTRACT: This theoretical paper investigates the effect of the centrifugal moments of inertia of the inner ring of a gimbal on the stability of motion of a gyroscope, when the rotational axis of the outer ring is at its vertical and horizontal positions. The friction in the gimbal journals is disregarded. The investigation is performed by means of Lyapunov's functions. The objective of the investigation is a heavy-weight gimbal-supported gyroscope. Right-hand coordinate systems fixed with respect to the immobile platform to which the

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ACCESSION NR: AP3000889

instrument is attached, the external ring, the internal ring, and the rotor, respectively are assumed. Expressions are derived for the kinetic energy of the outer and inner rings and the rotor, and an applicable expression of the Lagrange equations is derived. Assuming that the field of the mass forces is constant and parallel to the x-axis of the platform, and friction in the gimbal journals is disregarded, the center of mass of the inner-ring coincides with the center of the gimbal. In the investigation of the stability of the regular precession and prescribing a perturbed motion, the integrals of the perturbed motion are developed including terms up to the second order, and an expression is obtained for the precession conditions. The Sylvester criterion is employed to express the conditions of the sign determinacy of the Lyapunov functions, and the sign determinacy is examined for the vertical and horizontal positions of the rotor axis. The study is extended to the case when the axis of revolution of the outer ring is horizontal, and the conditions for stability of motion are determined for that case. "The author is obliged to A. Yu. Ishlinskiy for the posing of the problem and valuable advices." There are 25 numbered equations.

ASSOCIATION: none

SUBMITTED: 09Jan63

DATE ACQ: 12Jun63

ENCL: 00

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OTHER: 000

Card 2/2 *elm/gck*

SINITSYN, I. I.

PA 12/5769

USSR/Metals

Jun 48

Steel, Acid Resistant

Steel, Heat-Resisting

"Corrosion of Acid Resistant and Heat Resistant Steel," I. P. Sinitsyn, Engr, "Krasnyy Otkyabr'" Works, 2 $\frac{1}{2}$  pp

"Stal'" No 6

Corrosion is usually accomplished with aid of salt or nitrogen acids. New method utilizes mixture of sulfuric acid with relatively small amounts of sodium chloride and sodium nitrite. This permits great increase in speed of corrosion without cutting down on quality of work.

1/49769

ANTIPOV, K.I., inzhener; SINITSYN, I.P., inzhener.

Heat treatment of 1Kh13-2Kh13 stainless steel sheets. Stal' 16  
no.2:155-156 F '56. (MLRA 9:5)

1. Zavod "Krasnyy Okryabr'".  
(Steel, Stainless--Heat treatment)

133-7-17/28  
AUTHOR: Babakov, A.A., Candidate of Technical Sciences, Sabinin, A.A. and Sinitsyn, I.P. (deceased), Engineers.  
TITLE: Pickling of Stainless Steels (Travleniye nerzhavayushchikh staley)  
PERIODICAL: Stal', 1957, No.7, pp. 631 - 636 (USSR)

ABSTRACT: The problem of removing scale from hot-rolled, and subsequently annealed at high temperatures, stainless chromium steels was investigated. As a first step, the composition of scale on steels containing various percentages of chromium and submitted to various modifications of heat treatment was studied. Chemical, petrographic, X-ray and electronographic methods were used for these studies. This work was carried out by G.A. Kokorin, R.M. Rozenblyum, A.G. Ryl'nikova and K.K. Sekiro. The results obtained are shown in Table 1 and Figs. 1 and 2. As the second stage, laboratory experiments on heat treatment and pickling of steels (chemical compositions are given in Table 2) were carried out. For pickling individual acids and mixtures of sulphuric, hydrochloric, nitric, phosphoric and hydrofluoric acids with and without additions of their sodium salts at 60 - 70 °C were tested. However, the results obtained were not satisfactory. In further investigations, an attempt was made to modify the structure of scale during its formation

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## Pickling of Stainless Steels.

133-7-17/28

during annealing. Coating with aqueous solutions of NaCl, NaOH,  $\text{Na}_2\text{CO}_3$ ,  $\text{NaNO}_3$ , NaF, etc. were tested individually and in mixtures. The best results were obtained by coating with a saturated solution of NaCl at  $90^\circ\text{C}$  (Fig.4, Table 3). In another series of experiments individual annealing of steel specimens (plates) without coatings was tested. The scale formed was easily removed from steels 1X13, X17 and X28 but not from steels 3X13 and 4X13 (Fig.5). As the best action of salt coatings was obtained with individual annealing (each plate separately), in order to check on the possibility of applying this method in practice, the influence of various methods of heating and soaking on the mechanical properties of steel were tested. The results are shown in Fig.6. Satisfactory results obtained on individual annealing of plates at  $780^\circ\text{C}$  with a soaking time of 2 minutes per 1 mm of the plate thickness. In conclusion, it is stated that the composition of scale on steels 1X13 - 4X13, X17, X25 and X28 is  $\text{Cr}_2\text{O}_3$ , FeO.  $\text{Cr}_2\text{O}_3$  and iron oxides mainly in the form of  $\text{Fe}_3\text{O}_4$ . In the upper layers of scale  $\text{Fe}_2\text{O}_3$  was found. The internal zone directly touching the metal consists of  $\text{Cr}_2\text{O}_3(\text{FeO}\cdot\text{Cr}_2\text{O}_3)$ ,

Card2/3

SINITSYN, I. T.

BOOK

Call Nr: TT 205.08

AUTHORS: Otdel'nov, P.V., Nikonov, V.A., Sinitsyn, I.T.,  
Tsogol, A.K., Solov'yev, V.M. Kats, D. Ya., Tkachenko,  
Ye. N., Sdvizhkov, M. Ye.

TITLE: Metalworking and Treatment of Metals in Machine Repair  
(Obrabotka metallov pri remonte mashin)

PUB. DATA: Voennoye izdatel'stvo Ministerstva oborony Soyuz  
SSR, Moscow 1957, 464 pp.

ORIG. AGENCY: None given

EDITORS: Martynov, A.D., Eng Col.; Tech. Ed.: Sokolova, G. F.

PURPOSE: This textbook is intended for students of military  
technical schools and can also be used by students  
taking military training courses covering machine  
repair. It was compiled in accordance with the  
program for armored division technical schools.

Card 1/7

Call Nr: TT 205.08

Metalworking and Treatment of Metals in Machine Repair (cont)

COVERAGE: This textbook is the basis for a practical course in metalworking as required by personnel overhauling and repairing machines. Sketches and diagrams of equipment, reference tables of materials, and methods used in shop measurements, bench work, heat treatment, forging, electroplating, welding and lathework turning are given in great detail. No personalities are mentioned. There are 17 references, all Soviet.

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SINITSYN, K., kand.tekhn.nauk; LIBERMAN, S., kand.tekhn.nauk; PETROVSKIY, V.

Mechanized SZhK-500 continuous production line. Mias.ind.  
S.S.S.R. 33 no.6:12-13 '62. (MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy  
promyshlennosti (for Petrovskiy).  
(Meat industry—By-products) (Assembly-line methods)



SINITSYN, K.A., kand.tekhn.mauk, dots.

Present status and future development of two-cycle engines  
fixed in power tools. Izv.vys.ucheb.zav.; mashinostr. no.4:  
72-99 '59. (MIRA 13:4)

1. Voenno-inzhenernaya akademiya im. V.V.Kuybysheva.  
(Gas and oil engines)

GAYEVGY, Yevgeniy Vasil'yevich; SINITSYN, Konstantin Dmitriyevich;  
ASLANOV, V.G., patentent; GORLOVOY, D.V., patentent;  
TSHERSON, A.L., red.

[Technology of leather and fur raw materials] Tekhnologiya kozhevennogo i mekhovogo syr'ia. Moskva, Pishchevaia promyshlennost', 1964. 459 p. (MIRA 18:3)

SINITSYN, K.

1997h SINITSYN, K. Novyye liniy obrabotki subproduktov. Myas. industriya  
SSSR, 1949, No. 3, s. 40-43.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949.

38142. SINITSYN, K.

Myasokombinat stolitsy. (Mosk. Mysokombinat im. Mikoyana).  
Myas. industriya SSSR, 1949, No 6, s. 8-11

SHIROKOV, N.V., kandidat khimicheskikh nauk; SINITSYN, K.D., inzhener;  
TSIBANOVA, V.D., inzhener; KRYLOVA, V.V., inzhener; SMELOVA, Z.A.

Continuous mechanized method for the production of sausage casings  
from paper. Trudy VNIIMS no.6:5-9 '54. (MLRA 10:8)  
(Sausage casings)

SINITSYN, K., inshener; KRAVCHENKO, N., inshener.

~~By letter to the author~~  
A standard equipment of a meat combine. Mas. ind. SSSR 26 no.1:  
23-25 '55. (MLRA 8:5)  
(Packing houses—equipment and supplies)

GRINBERG, T.D.; GURARI, N.G.; ~~SINITSYN, K.D.~~; KASHIRINA, V.M., retsenzent;  
VASIL'YEVA, G.N., red.; YAROV, E.M., tekhn.red.

[Mechanization of conveying in raw materials sections of sausage  
and meat canning plants] Mekhanizatsiia transportnykh operatsii  
v syr'evykh tsekhakh kolbasnogo i konservnogo proizvodstva.

Moskva, Pishchepromizdat, 1956. 50 p.

(MIRA 12:1)

(Meat industry--Equipment and supplies)

(Conveying machinery)

SINITSYN, K. D.

Sinit syn, K. D.

"Establishment of optimum values of the basic factors affecting the quality of hide removal from the carcasses of small horned livestock using mechanical procedures." Min Higher Education USSR. Moscow Technological Inst of the Meat and Dairy Industry. Moscow 1956 (Dissertation for the degree of Candidate in Technical Science)

Knishnaya letopis'  
No. 25, 1956. Moscow



~~SINITSYN~~, K., kandidat tekhnicheskikh nauk.

Accelerating the processing of hides. *Mias.ind.SSSR* 28 no.4:21-23  
(MLRA 10:7)

'57.

(Hides and skins)

SINITSYN, K., kand.tekhn.nauk; KURBATOVA, K., inzh.; UNANOV, G., zootekhnik

~~SECRET~~

Effect of the fattening method on mechanical removal of skins from  
swine. Mias. ind. SSSR 29 no.2:11-14 '58. (MIRA 11:5)  
(Swine)

SINITSYN, K., kand. tekhn. nauk,; KURBATOVA, Ye., inzh.

Factors affecting quality in the removing of skins from swine.  
Mias. ind. SSSR 29 no. 4:14-16 '58. (MIRA 11:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy  
promyshlennosti.

(Hides and skins)

(Slaughtering and slaughterhouses)

LEONT'YEV, Ivan Ivanovich; inzh.; SINITSYN, Konstantin Dmitriyevich, kand.  
tekhn.nauk; SOKOLOVSKIY, M.S., inzh., spetsred.; GRITSAY, N.P.,  
inzh., retsenzent; NOVOSELOVA, L.V., red.; SOKOLOVA, I.A., tekhn.red.

[Manual on leather and fur raw materials, hair, and bristle] Spra-  
vochnik po kozhevennomu i mekhovomu syr'yu, volosu i shchatine.  
Moskva, Pishchepromizdat, 1959. 605 p. (MIRA 13:3)  
(Hides and skins)